

ABSTRACT

The invention provides an improved method for disposing polychloro organic waste (PCOW) materials. The invention relates to a method of hydrogenating PCOW materials in a bi-phasic solvent system (comprising an aqueous solvent and an organic solvent) and filtering the mixture at an elevated temperature (*e.g.*, 60-110 °C) through a filter of unwoven polymer fabric that is capable of separating waste particles of no less than approximately 1 micron in size. Thereafter, 1-20 % by weight of a lower aliphatic alcohol is added to the waste mass and the solution is hydrogenated with molecular hydrogen at approximately 60-130 °C with a pressure of approximately 10-50 atmospheres in the presence of a catalyst (*e.g.*, palladium on a carrier) and a quantity of an approximately 10-20 % aqueous solution of sodium hydroxide.